## **PATENT**

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF MAILING & TRANSMISSION

I hereby certify that on AUGUST QU\_2004, which is the date I am signing this certificate, I am depositing this correspondence the United States Postal Service, first class mail, in an envelope addressed to Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. I further certify that on August which is the date I am signing this certificate, I am transmitting this summary via facsimile to Art Unit 1645 at (703) 872-9306, known to me to be the facsimile number of Art Unit 1645 and to Examiner Ford at (571) 273-0857, the facsimile number of Examiner Vanessa L. Ford. A copy of the confirmation being kept for recordkeeping purposes.

Jessica Breyen

Serial No.: 09/412,297
Filed: October 5, 1999
Title: NELL-1 ENHANCED
BONE MINERALIZATION
Atty. Docket No. 38586-329
Examiner: FORD, Vanessa L.
Group Art Unit: 1645
Confirmation Number: 9486

Applicant: TING, Kang

Mail Stop AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.56

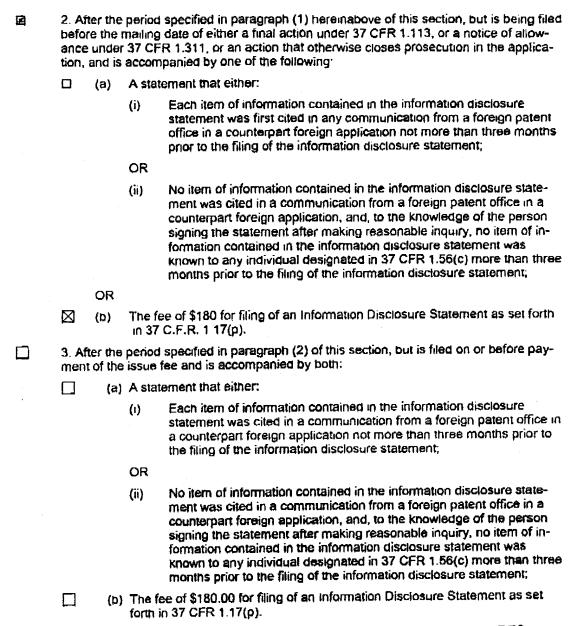
Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, Applicant brings the references listed on the attached Form PTO-1449 to the examiner's attention. 37 C.F.R. § 1.56. These references may be material to examination of the above-identified application. Please do not construe the filing of this information disclosure statement as a representation that applicant has made a search (37 C.F.R. § 1.97(g)), or as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. We enclose copies of all cited documents (by mail) and all non-patent cited documents (by facsimile).

This Information Disclosure Statement is being submitted:

1. Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office action on the merits, and therefore, Applicant believes no fee is required;

LAS99 1357488-1.038586.0329



Applicant would appreciate the Examiner initialing and signing a copy of Form PTO-1449, transmitted nerewith, indicating that the information has been considered and made of record herein.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicant petitions for any required relief including extensions of time and authorizes the Commissioner to charge the

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cost of such petitions and/or other fees due in connection with the filing of this document to **De- posit Account No. 501946** referencing order number 38586-329.

August 2, 2004

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Substitute for form 1449A/PTO  INFORMATION DISCLOSURE				Complete if Known		
				Application Number	09/412,297	
STATEMENT BY APPLICANT				Filing Date	October 5, 1999	
(use as many sheets as necessary)				First Named Inventor	TING	
				Art Unit	1645	
				Examiner Name FORD, Vanessa		
Sheet	1	of	1	Attorney Docket Number	38586-329	•

U.S. PATENT DOCUMENTS						
Examiner (nitials*	Cite	Document Number	Issue Date MM-DD-YYYY	Name of Patentee or		
	No. 1	Number -King Code <sup>2</sup> (if known)		Applicant of Cited Document		
	1	US-5,674,844	10-07-1997	Kuberasampath et al.		
	2	US-6,083,690	07-04-2000	Harris et al.		
	3	US-6,352,972	03-05-2002	Nimni et al.		
	4	US-6,413,998	07-02-2002	Petrie et al.		
	5	US-6,462,019	10-08-2002	Mundy et al.		

		OTHER PRIOR ART - NONPATENT LITERATURE DOCUMENTS	•
Examiner Initals	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	6	BELLOWS, C.G. et al. "Determination of Numbers of Osteoprogenitors Present in Isolated Fetal Rat Calvaria Cells in Vitro." Dev. Biol. (1989) 133(1), pp. 8-13	
	7	BURGER, E.H. et al. "Osteoblast and Osteoclast Precursors in Primary Cultures of Calvarial Bone Cells." Anat Rec. 1986 Jan; 214(1): 32-40. Abstract Only.	
	8	HOSHI, K. et al. Fibrobiasts of Spinal Ligaments Pathologically Differential Into Chondrocytes Induced by Recombinant Human Bone Morphogenetic Protein-2: Morphological Examinations for Ossification of Spinal Ligaments. Bone Vol. 21, No. 2 (August 1997): 155-162.	
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-	10	TAKAGI, K. et al. The reaction of the dura to bone morphogenetic protein (BMP) in repair of skull defects. Ann Surg. Vol. 198, No. 1 (July 1982): 100-109. Abstract only.	
	11	TAKAMI, M. et al. CA <sup>**</sup> -ATPase Inhibitors and Ca <sup>**</sup> -Ionophore Induce Osteoclast-like Cell Formation in the Cocultures of Mouse Bone Marrow Cells and Calvarial Cells. Biochemical and Biophysical Research Communications, Vol. 237, 1997-111-115. (Article No. RC977090)	
	12	TIEU A. et al. "Identification of Human NEL-2 Associated with Premature Suture Fusion." <u>J Dent Res.</u> 77(A):635, 1998 (Presented March 4-7, 1998, Minneapolis, MN). Abstract Only	
	13	TING, K. et al. "NEL-2 Expressed in Unilateral Prematurely Fusing and Fused Coronal Sutures." <u>J Dent Res.</u> 77(B):2224, 1998 (In Abstact book, but withdrew from presentation because unable to make June 24-27, 1998 trip to Nice, France). Abstract Only.	
	14	WATANABE, T.K. et al. *Cloning and Characterization of Two Novel Human cDNAs (NELL1 and NELL2) Encoding Proteins with Six EGF-like Repeats.* Genomics, Vol. 38, 273-276 (1996).	

Examiner	Signature	Date Considered
1		